



## DATA SHEET

<b>Torquemeter MDNFM3 20 – 50 kNm</b>		
<b>rated torque</b> typ. $M_N$	Nm	20.000
<b>maximum rated torque</b> max. $M_N$	Nm	80.000
<b>overload capability torsional shaft, related to <math>M_N</math></b>		>5 $M_N$
<b>rated speed</b> $n_{max}$	min <sup>-1</sup>	3.200
<b>Genauigkeitsklasse</b>		0,1
<b>accuracy incl. Hysteresis and nonlinearity</b> related to rated torque		< ± 0,1
<b>Temperature effect on zero</b> per 20 K related to $M_N$	%	<0,1
<b>operating temperature range</b>	°C	0.. + 70
<b>functional temperature range</b>	°C	-10 ... +80
<b>TORQUE OUTPUT</b>		
<b>frequency</b>	kHz	60 ± 20
<b>dynamic</b>	kHz	>1,5
<b>calibration signal</b>	-	ca. 70% of $M_N$
<b>SPEED OUTPUT</b>		
<b>pulses per rev.</b>	-	300
<b>outputsignal</b> (RS422, TTL)		2 tracks
<b>minimum speed</b> for proper working	min <sup>-1</sup>	>0
<b>MECHANICAL DATA</b>		
<b>weight</b> at rated torque	kg	ca. 40
<b>inertia</b>	gm <sup>2</sup>	—
<b>rotation angle</b> at typ. rated torque	grad	—
<b>torsional stiffness</b>	kNm/rad	—
<b>coupling mass</b> (typ)	kg	—